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=> file caplus uspatful europatful japio medline biosis embase		
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=> S (polyaminoacid# or polyamide#)
L1 351320 (POLYAMINOACID# OR POLYAMIDE#)

=> s l1 and (drug delivery)
3 FILES SEARCHED...
L2 5509 L1 AND (DRUG DELIVERY)

=> s l2 and linear
L3 2503 L2 AND LINEAR

=> s l3 and (monofunctional or multifunctional)
<-----User Break----->

SEARCH ENDED BY USER
SEARCH ENDED BY USER

=> s l3 and (monofunctional or multifunctional)
L4 224 L3 AND (MONOFUNCTIONAL OR MULTIFUNCTIONAL)

=> s l4 and (glutam? or aspart? or serin?)
L5 121 L4 AND (GLUTAM? OR ASPART? OR SERIN?)

=> s l5 and (functional end group)
<-----User Break----->

SEARCH ENDED BY USER

=> s l5 and ((functional or end)(w)group)
L6 92 L5 AND ((FUNCTIONAL OR END)(W) GROUP)

=> s l6 and (nonreact? or protective) and (end group)
L7 6 L6 AND (NONREACT? OR PROTECTIVE) AND (END GROUP)

=> s l7 and (multifunctional initiator) and (primary amin?)
6 FILES SEARCHED...
L8 0 L7 AND (MULTIFUNCTIONAL INITIATOR) AND (PRIMARY AMIN?)

=> d l7 1-6 ibib aba
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L7 ANSWER 1 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2004:165412 USPATFULL
TITLE: High affinity peptide- containing nanoparticles
INVENTOR(S): Barry, Stephen E, Oakland, CA, UNITED STATES
Goodwin, Andrew A, Berkeley, CA, UNITED STATES
Casenas, Dominic, Fremont, CA, UNITED STATES
Lindquist, Kevin, Albany, CA, UNITED STATES
Decor, Rachel, Berkeley, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004126900	A1	20040701
APPLICATION INFO.:	US 2003-257455	A1	20030505 (10)
	WO 2001-US12093		20010413
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	JACQUELINE S LARSON, P O BOX 2426, SANTA CLARA, CA, 95055-2426		
NUMBER OF CLAIMS:	26		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1952		

AB The present invention is directed to polymeric nanoparticles functionalized with two or more peptide moieties that possess high affinity to biomolecular targets, the peptide moieties being covalently linked to the nanoparticle polymeric core structure, either directly or via a linker molecule. The invention is further directed to methods of synthesizing these polymeric nanoparticles and to the various applications for which they may be used.

L7 ANSWER 2 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2004:69519 USPATFULL
TITLE: Multi-purpose polymers, methods and compositions
INVENTOR(S): Tamareselvy, Krishnan, Brecksville, OH, UNITED STATES
Barker, Thomas A., Akron, OH, UNITED STATES
Mullee, James E., Garrettsville, OH, UNITED STATES
Greenslade, Charles T., Willoughby, OH, UNITED STATES
Schmucker-Castner, Julie F., Strongsville, OH, UNITED STATES
Filla, Deborah S., Twinsburg, OH, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004052746	A1	20040318
APPLICATION INFO.:	US 2003-646856	A1	20030822 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-410697P	20020913 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Noveon, Inc., Legal Department, 9911 Brecksville Road, Cleveland, OH, 44141-3247	
NUMBER OF CLAIMS:	71	
EXEMPLARY CLAIM:	1	
LINE COUNT:	4095	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are multi-purpose polymers that are the polymerization product of a monomer mixture comprising at least one amino-substituted vinyl

monomer; at least one nonionic vinyl monomer; at least one associative vinyl monomer; at least one semihydrophobic vinyl surfactant monomer; and, optionally, comprising one or more hydroxy-substituted nonionic vinyl monomer, crosslinking monomer, chain transfer agent or polymeric stabilizer. These vinyl addition polymers have a combination of substituents, including amino substituents that provide cationic properties at low pH, hydrophobic substituents, hydrophobically modified polyoxyalkylene substituents, and hydrophilic polyoxyalkylene substituents. The polymers provide surprisingly beneficial rheological properties in acidic aqueous compositions, and are compatible with cationic materials. The multi-purpose polymers are useful in a variety of products for personal care, health care, household care, institutional and industrial care, and industrial applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2003:141278 USPATFULL

TITLE: Bioactive surface modifiers for polymers and articles made therefrom

INVENTOR(S): Santerre, Paul J., Toronto, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003097120	A1	20030522
APPLICATION INFO.:	US 2002-162084	A1	20020605 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	CA 2001-2349989	20010607
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORGAN LEWIS & BOCKIUS LLP, 1111 PENNSYLVANIA AVENUE NW, WASHINGTON, DC, 20004	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	2279	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to macromolecule modifiers containing biologically active drugs/biomolecules, or precursors thereof, and fluoroligomers; compositions comprising the macromolecules containing the drugs and fluoroligomers in admixture with polymers, particularly biomedical polymers; articles made from the admixtures, particularly medical devices. Specifically, the modifier has the general formula ##STR1##

comprising an oligomeric polymeric segment having a theoretical molecular weight of less than 15,000, and being compatible with said base polymer; wherein

[oligo] is a first oligomeric segment;

[link A] is a second coupling segment linking one [oligo] to another [oligo] within said central portion;

n is 0 to 20;

[fluoro] is a polyfluoro oligomeric group; and

[link B] is a first coupling segment linking said central portion to said [fluoro] through said first coupling segment; and coupled to a bioactive moiety [Bio] or precursor thereof; and

m is 1 to 20.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 4 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2001:196635 USPATFULL
TITLE: Delivery of nucleic acid materials
INVENTOR(S): Schacht, Etienne H, Rijseveldstraat 99, B-8140,
Staden, Belgium
Seymour, Leonard C W, The University of Birmingham,
Clinical Research Block, The Medical School, Edgbaston,
Birmingham B15 2TJ, United Kingdom
Ulbrich, Karel, Inst of Macromolecular Chemistry,
Academy of Sciences of the Czech Republic, Heyrovsky
Sq. 2, 16206, Prague 7, Czech Republic

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6312727	B1	20011106
APPLICATION INFO.:	US 1999-306568		19990506 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1997-GB2965, filed on 6 Nov 1997		

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1996-23051	19961106
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	McKelvey, Terry	
ASSISTANT EXAMINER:	Sandals, William	
LEGAL REPRESENTATIVE:	Pillsbury Winthrop LLP	
NUMBER OF CLAIMS:	52	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	13 Drawing Figure(s); 11 Drawing Page(s)	
LINE COUNT:	2173	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Synthetic polymer-based carrier vehicles for delivery of nucleic acid material to target cells in biological systems are made by self-assembly of the nucleic acid with cationic polymer material so as to condense the nucleic acid and form a polyelectrolyte complex and reacting the complex with hydrophilic polymer material which bonds to the complex forming a hydrophilic coating that stabilizes the complex and provides an outer **protective** steric shield. The carrier vehicles are useful for gene therapy.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 6 USPATFULL on STN

ACCESSION NUMBER: 1999:75300 USPATFULL
TITLE: Hyper comb-branched polymer conjugates
INVENTOR(S): Yin, Rui, Midland, MI, United States
Tomalia, Donald A., Midland, MI, United States
Hedstrand, David M., Midland, MI, United States
Swanson, Douglas R., Midland, MI, United States
Baker, Jr., James R., Ann Arbor, MI, United States
Kukowska-Latallo, Jolanta F., Ann Arbor, MI, United States
PATENT ASSIGNEE(S): Dendritech, Inc., Midland, MI, United States (U.S. corporation)
University of Michigan, Ann Arbor, MI, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 5919442 19990706
 APPLICATION INFO.: US 1996-694787 19960809 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-2202P	19950811 (60)
	US 1995-2833P	19950825 (60)
	US 1995-3105P	19950901 (60)
	US 1995-4108P	19950921 (60)

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Levy, Neil S.
 LEGAL REPRESENTATIVE: Price, Heneveld, Cooper, Dewitt & Litton
 NUMBER OF CLAIMS: 92
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 39 Drawing Figure(s); 28 Drawing Page(s)
 LINE COUNT: 3057

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A novel class of hyper comb-branched polymers conjugated with carried materials are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 6 OF 6 EUROPATFULL COPYRIGHT 2004 WILA on STN

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 941123 EUROPATFULL EW 200224 FS PS
 TITLE: NUCLEIC ACID COMPLEXED WITH CATIONIC POLYMER USEFUL FOR GENE THERAPY.

NUKLEINSAEUREKOMPLEX MIT KATIONISCHEN POLYMER NUETZLICH FUEr GENTHERAPIE.
 COMPLEXE D'ACIDE NUCLEIQUE ET DE POLYMERES CATIONIQUES UTILE EN THERAPIE GENIQUE.

INVENTOR(S): Schacht, Etienne Honore, Rijssseveldstraat 99, 8140 Staden, BE;
 Seymour, Leonard Charles William, The University of Birmingham, The Medical School, Edgbaston, Birmingham B15 2TJ, GB;
 Ulbrich, Karel, Academy of Sciences of the Czech Republic, 162 06 Prague 7, CZ

PATENT ASSIGNEE(S): Hybrid Systems Limited, Birmingham Research Park, Vincent Drive, Birmingham B15 2SQ, GB

PATENT ASSIGNEE NO: 3233280
 AGENT: Skerrett, John Norton Haigh et al., Wilson Gunn Skerrett, Charles House 148/9 Great Charles Street, Birmingham B3 3HT, GB

AGENT NUMBER: 35941
 OTHER SOURCE: BEPB2002043 EP 0941123 B1 0047
 SOURCE: Wila-EPS-2002-H24-T1

DOCUMENT TYPE: Patent
 LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
 DESIGNATED STATES: R AT; R BE; R CH; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R SE

PATENT INFO.PUB.TYPE: EPB1 EUROPAEISCHE PATENTSCHRIFT (Internationale Anmeldung)

PATENT INFORMATION:	PATENT NO	KIND DATE
	EP 941123	B1 20020612
'OFFENLEGUNGS' DATE:		19990915
APPLICATION INFO.:	EP 1997-911324	19971106
PRIORITY APPLN. INFO.:	GB 1996-23051	19961106
RELATED DOC. INFO.:	WO 97-GB2965	971106 INTAKZ

WO 9819710 980514 INTPNR
REFERENCE PAT. INFO.: WO 93-19768 A WO 95-02397 A
 WO 96-21036 A WO 96-21470 A
 WO 97-45069 A WO 98-59064 A
 US 5656611 A
REF. NON-PATENT-LIT.: WOLFERT MA ET AL: "Characterization of vectors for gene
therapy formed by self-assembly of DNA with synthetic
block co-polymers." HUM GENE THER, NOV 10 1996, 7 (17)
P2123-33, XP002060059 UNITED STATES cited in the
application ROBINSON, PHIL ET AL: "Effect of
polyethylene glycol conjugated to DNA-transfecting
complexes targeted at the transferrin receptor of HeLa
cells" DRUG DELIVERY, 1997, 4, 115-119, XP002060058
KATAYOSE, SATOSHI ET AL: "Water-Soluble Polyion Complex
Associates of DNA and Poly(ethylene glycol)-Poly(L-
lysine) Block Copolymer" BIOCONJUGATE CHEM., 1997, 8,
702-707, XP000698649

L7 ANSWER 4 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2001:196635 USPATFULL
TITLE: Delivery of nucleic acid materials
INVENTOR(S): Schacht, Etienne H, Rijsseveldstraat 99, B-8140,
Staden, Belgium
Seymour, Leonard C W, The University of Birmingham,
Clinical Research Block, The Medical School, Edgbaston,
Birmingham B15 2TJ, United Kingdom
Ulbrich, Karel, Inst of Macromolecular Chemistry,
Academy of Sciences of the Czech Republic, Heyrovsky
Sq. 2, 16206, Prague 7, Czech Republic

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APPLICATION INFO.:	US 1999-306568		19990506 (9)
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	NUMBER	DATE
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ASSISTANT EXAMINER:	Sandals, William	
LEGAL REPRESENTATIVE:	Pillsbury Winthrop LLP	
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